

22.8 x 15.3 x 25.8 mm

Features

- Switching capacity up to 25A
- Small size and light weight
- PCB pin and quick connect mounting available
- Suitable for automobile and lamp accessories
- QS-9000, ISO-9002 Certified Manufacturing

Contact Data

| Contact Arrangement | 1A = SPST N.O. | | |
|---------------------|------------------|--|--|
| | 1C = SPDT | | |
| Contact Rating | 1A: 25A @ 14VDC | | |
| | 1C : 20A @ 14VDC | | |

| Contact Resistance | < 50 milliohms initial | | | |
|---------------------------|------------------------|--|--|--|
| Contact Material | AgSnO ₂ | | | |
| Maximum Switching Power | 350W | | | |
| Maximum Switching Voltage | 75VDC | | | |
| Maximum Switching Current | 25A | | | |

Coil Data

| | Coil Voltage Coil Resistance VDC Ω +/- 10% | | Pick Up Voltage VDC (max) | Release Voltage VDC (min) | Coil Power W | Operate Time ms | Release Time ms | | |
|-------|--|------|------------------------------|------------------------------|----------------------|-----------------|--------------------|---|--|
| Rated | Max | 1.2W | 1.5W | 70% of rated voltage | 10% of rated voltage | | | | |
| 6 | 7.8 | 30 | 24 | 4.20 | .6 | | 10 | 7 | |
| 12 | 15.6 | 120 | 96 | 8.40 | 1.2 | 1.20 or 1.50 | | | |
| 24 | 31.2 | 480 | 384 | 18.00 | 2.4 | 1.20 01 1.50 | | | |
| 48 | 62.4 | 1920 | 1536 | 33.60 | 4.8 | | | | |

General Data

| Electrical Life @ rated load | 100K cycles, typical | | |
|--------------------------------------|-----------------------------------|--|--|
| Mechanical Life | 10M cycles, typical | | |
| Insulation Resistance | 100M Ω min. @ 500VDC | | |
| Dielectric Strength, Coil to Contact | 2500V rms min. @ sea level | | |
| Contact to Contact | 1500V rms min. @ sea level | | |
| Shock Resistance | 100m/s ² for 11 ms | | |
| Vibration Resistance | 1.27mm double amplitude 10~40Hz | | |
| Terminal (Copper Alloy) Strength | 8N (Quick Connect), 4N (PCB pins) | | |
| Operating Temperature | -40°C to +85°C | | |
| Storage Temperature | -40°C to +155°C | | |
| Solderability | 260°C for 5 s | | |
| Weight | 18.5g | | |

Caution

The use of any coil voltage less than the rated coil voltage may compromise the operation of the relay.

Dimensions shown in mm. Dimensions are shown for reference purposes only.

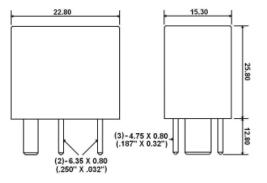


Ordering Information

| 1. Series | A1 | 1A | S | Q | 12VDC | 1.2 |
|---|----|----|---|---|-------|-----|
| A1 | | | | | | |
| 2. Contact Arrangement 1A = SPST N.O. 1C = SPDT | | | | | | |
| 3. Sealing Option S = Sealed | | | | | | |
| 4. Termination P = PCB Pins Q = Quick Connect | | | | | | |
| 5. Coil Voltage 6VDC 12VDC 24VDC 48VDC | | | | | | |
| 6. Coil Power 1.2 = 1.2W 1.5 = 1.5W | | | | | | |
| 7. Coil Suppression Blank = Standard D = Diode (1N4005) R = Resistor (680 ohms) ** Consult factory if other values are needed | | | | | | |

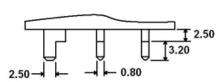
Dimensions





PC Pin Dimensions

Units = mm



Schematics & PC Layouts

Bottom Views

